

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P1449846

Luminaire Tested: **TWC100_T4_60W_4000K**

Issue Date: 5/19/2026

Test Information

Test Method: LM-79-08
Report Number: P1449846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310010)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TWC100_T4_60W_4000K
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 60W
4000K settings
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9960 lumens
Efficiency: N/A
Efficacy: 173.5 lumens/watt
Luminous Opening: Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U3 - G2

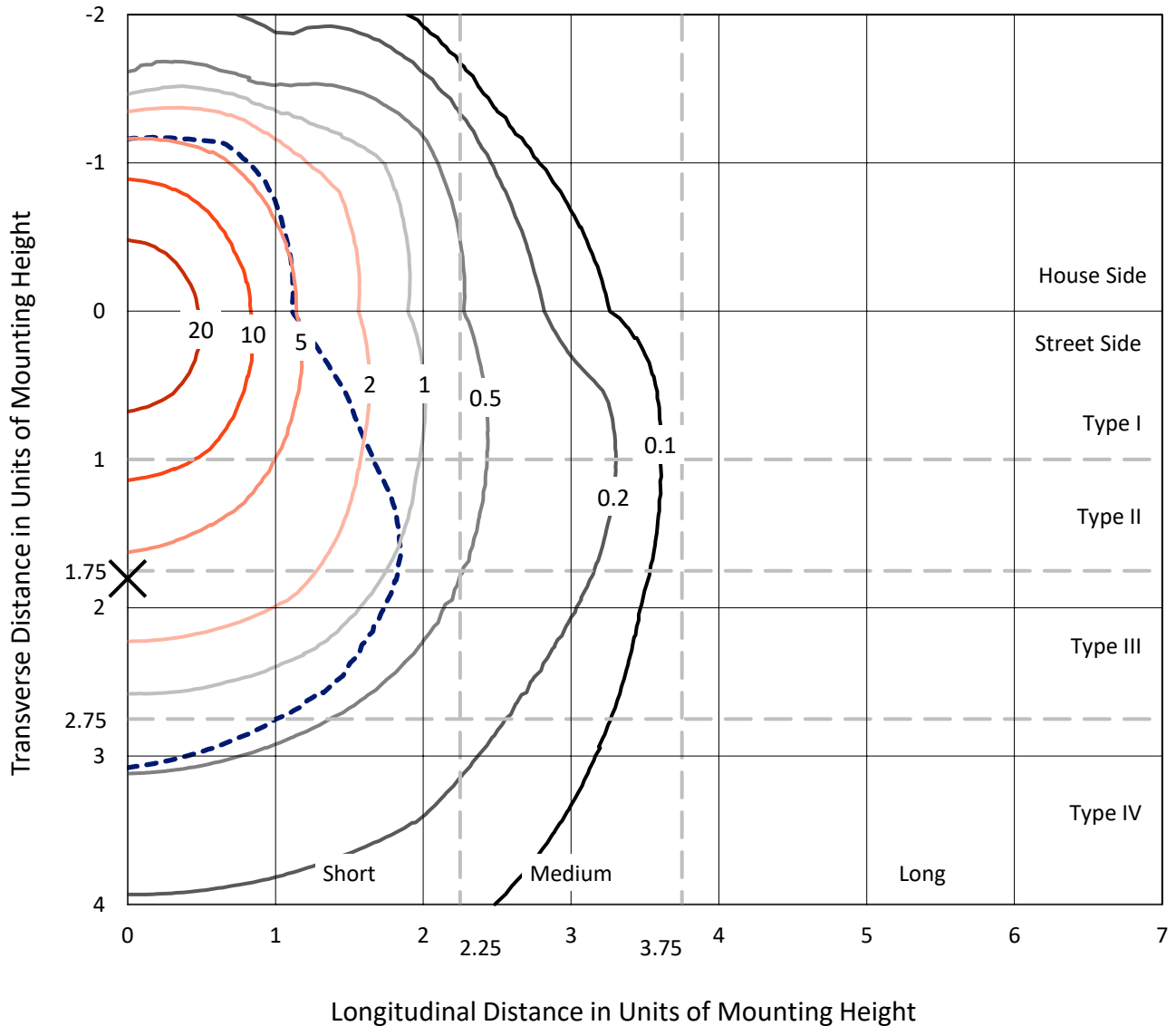
Input Watts (W): 57.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

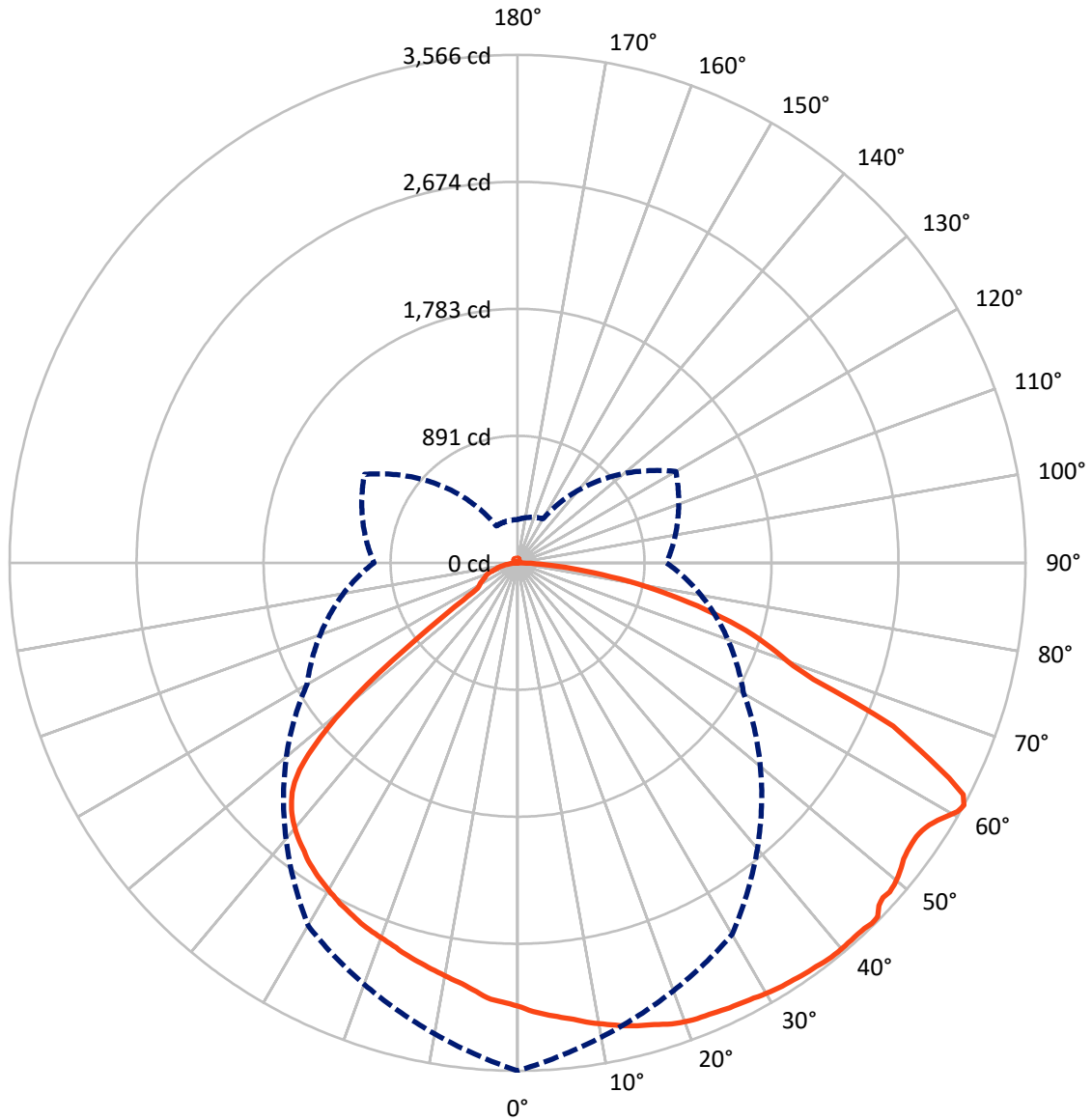
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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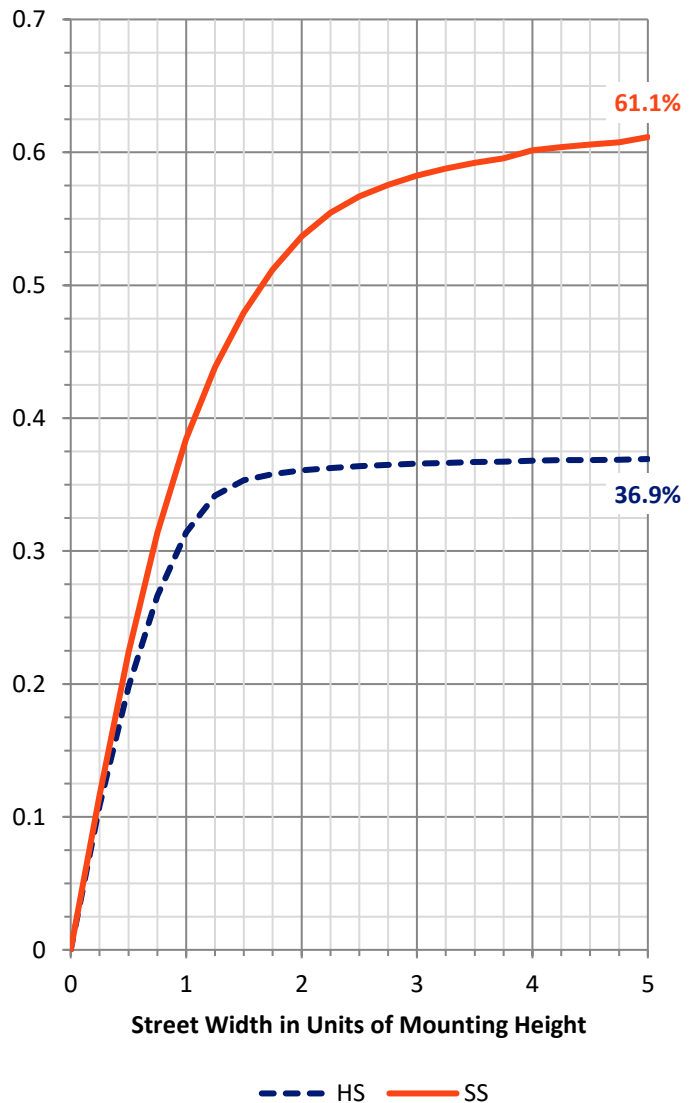
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3704.5	66.1	3770.7
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	6147.9	41.4	6189.4
	% Fixture	61.7	0.4	62.1
Total	Lumens	9852.5	107.5	9960.0
	% Fixture	98.9	1.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	3.0
10°-20°	862.4	8.7
20°-30°	1346.0	13.5
30°-40°	1699.8	17.1
40°-50°	1873.9	18.8
50°-60°	1692.9	17.0
60°-70°	1278.9	12.8
70°-80°	647.2	6.5
80°-90°	155.0	1.6
90°-100°	5.8	0.1
100°-110°	10.1	0.1
110°-120°	14.4	0.1
120°-130°	17.3	0.2
130°-140°	18.1	0.2
140°-150°	16.7	0.2
150°-160°	13.4	0.1
160°-170°	8.7	0.1
170°-180°	3.0	0.0
0°-90°	9852.5	98.9
0°-180°	9960.0	100.0

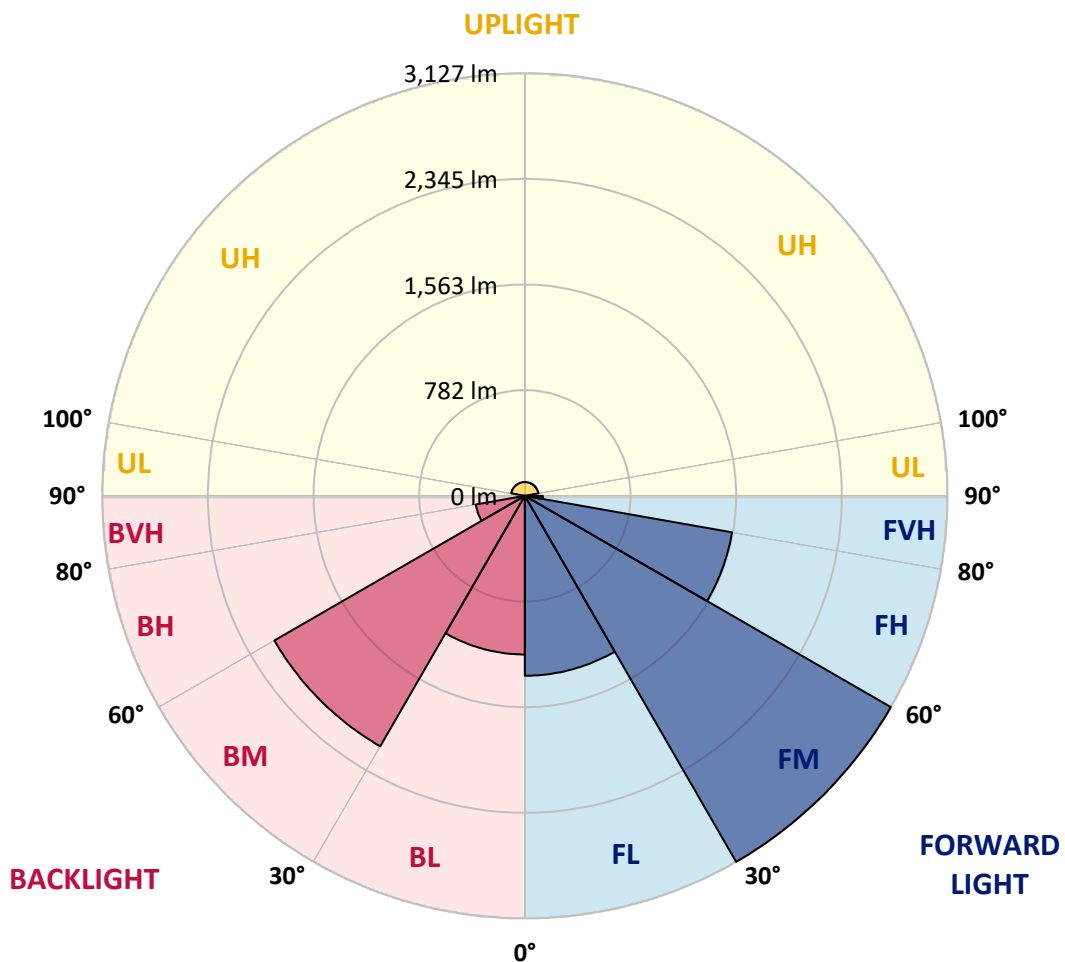


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.1	13.4			
FM (30°-60°)	3126.7	31.4			
FH (60°-80°)	1557.2	15.6			G1/1800
FVH (80°-90°)	133.0	1.3			G2/225
BL (0°-30°)	1173.8	11.8	B3/2500		
BM (30°-60°)	2139.8	21.5	B2/2500		
BH (60°-80°)	368.9	3.7	B1/500		G1/500
BVH (80°-90°)	22.0	0.2			G1/100
UL (90°-100°)	5.8	0.1		U1/10	
UH (100°-180°)	101.8	1.0		U3/500	

BUG Rating: B3-U3-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	3119.8	3119.8	3119.8	3119.8	3119.8	3119.8	3119.8	3119.8	3119.8	3119.8	3119.8
1°	3143.3	3138.5	3129.7	3119.4	3115.9	3103.3	3104.0	3103.2	3112.3	3117.0	3130.4
2°	3159.6	3152.3	3134.7	3117.6	3101.9	3089.5	3089.9	3089.6	3102.8	3118.6	3131.7
3°	3175.3	3165.0	3141.4	3117.2	3092.3	3079.4	3079.7	3077.6	3086.6	3114.6	3136.2
4°	3191.0	3178.3	3146.3	3112.9	3082.3	3068.1	3069.8	3069.9	3077.1	3108.7	3141.5
5°	3205.2	3188.7	3150.6	3108.9	3071.1	3057.7	3049.4	3056.8	3066.1	3102.3	3142.9
6°	3220.5	3200.3	3156.8	3103.2	3060.0	3043.9	3022.4	3035.5	3055.5	3088.8	3150.4
7°	3238.3	3213.3	3159.6	3095.8	3050.2	3017.9	3001.6	3006.4	3044.4	3080.1	3151.7
8°	3258.8	3228.6	3162.0	3086.9	3038.4	2993.6	2980.7	2986.2	3031.1	3069.4	3152.5
9°	3276.5	3242.7	3163.6	3072.3	3025.0	2971.5	2966.1	2969.5	3016.0	3058.4	3152.8
10°	3292.8	3256.6	3165.0	3062.0	3010.2	2954.3	2950.8	2953.7	2994.7	3047.3	3151.7
11°	3309.5	3268.2	3163.5	3049.3	2992.5	2936.4	2935.5	2932.8	2972.4	3033.3	3148.8
12°	3328.4	3282.6	3160.2	3034.9	2967.3	2920.6	2920.8	2916.8	2950.0	3018.1	3146.0
13°	3341.7	3291.7	3158.3	3024.2	2944.7	2904.9	2907.6	2901.0	2926.2	2999.0	3144.2
14°	3357.0	3299.3	3156.6	3007.5	2920.1	2889.0	2892.5	2889.2	2898.8	2981.3	3136.4
15°	3367.2	3305.4	3152.7	2990.7	2895.9	2873.5	2879.4	2873.0	2875.2	2963.2	3130.6
16°	3381.2	3315.0	3151.2	2966.4	2872.6	2857.3	2864.9	2855.7	2851.1	2943.4	3123.2
17°	3395.9	3323.7	3146.0	2947.2	2848.4	2834.9	2852.0	2838.5	2828.1	2919.2	3118.3
18°	3414.2	3331.2	3138.5	2927.2	2823.3	2817.6	2832.9	2816.3	2806.4	2897.0	3109.2
19°	3424.7	3341.3	3125.2	2906.0	2799.5	2799.5	2819.8	2799.1	2782.5	2874.3	3098.4
20°	3432.9	3346.1	3114.0	2882.1	2770.6	2783.0	2805.9	2782.9	2758.8	2851.5	3078.5
21°	3439.6	3347.0	3101.2	2858.0	2744.9	2767.8	2794.8	2766.7	2726.8	2827.7	3062.5
22°	3441.7	3342.8	3086.6	2833.7	2719.4	2751.3	2784.3	2750.5	2702.8	2801.9	3044.8
23°	3447.0	3339.5	3069.4	2806.5	2691.0	2734.2	2771.4	2734.2	2677.0	2776.1	3027.2
24°	3452.9	3336.7	3052.7	2779.8	2665.3	2713.1	2757.5	2718.2	2651.4	2742.5	3010.2
25°	3460.2	3333.5	3034.5	2751.1	2638.4	2696.9	2741.7	2701.4	2624.3	2713.9	2990.7
26°	3464.7	3331.5	3016.9	2722.7	2611.6	2680.5	2726.9	2683.0	2596.9	2683.6	2969.0
27°	3471.1	3329.3	2997.2	2686.5	2583.6	2663.4	2710.8	2664.7	2570.8	2650.7	2947.9
28°	3476.6	3324.9	2975.1	2654.0	2556.1	2642.2	2697.2	2644.7	2539.6	2617.0	2921.6
29°	3487.4	3320.8	2952.3	2620.0	2527.7	2620.9	2678.9	2620.9	2511.6	2582.2	2897.4
30°	3494.4	3317.0	2922.3	2586.1	2498.0	2600.4	2662.0	2600.8	2481.9	2546.7	2871.6
31°	3500.9	3312.0	2898.4	2550.9	2462.2	2580.6	2644.9	2581.4	2452.2	2507.7	2840.0
32°	3507.1	3308.6	2873.8	2516.5	2431.8	2561.1	2626.3	2561.4	2417.0	2470.6	2813.9
33°	3510.6	3300.3	2849.1	2481.5	2401.4	2541.3	2609.3	2541.5	2387.0	2433.2	2786.3
34°	3516.8	3300.0	2823.1	2445.7	2371.1	2518.4	2589.2	2519.5	2356.0	2388.9	2757.2
35°	3522.0	3297.8	2795.1	2403.1	2338.4	2496.4	2568.5	2497.3	2324.3	2348.6	2728.5
36°	3526.1	3297.5	2765.4	2362.5	2307.4	2467.9	2546.7	2473.0	2290.4	2305.8	2695.6
37°	3534.3	3300.0	2734.6	2319.7	2273.9	2443.9	2518.8	2443.9	2255.9	2261.4	2663.1
38°	3537.1	3295.5	2696.8	2275.9	2238.2	2419.2	2496.1	2418.5	2220.4	2214.2	2630.0
39°	3539.1	3291.1	2663.7	2224.4	2196.8	2393.9	2472.1	2393.1	2184.9	2168.7	2587.7
40°	3538.2	3284.1	2630.0	2177.1	2160.0	2368.8	2445.9	2365.2	2145.1	2121.4	2552.0
41°	3536.2	3273.7	2596.9	2129.8	2124.8	2342.4	2416.3	2338.0	2109.5	2073.6	2515.5
42°	3535.2	3265.3	2559.2	2080.3	2086.4	2315.2	2384.0	2309.5	2073.9	2027.5	2478.2
43°	3538.5	3256.5	2525.2	2033.2	2050.4	2287.2	2348.2	2281.0	2038.1	1973.7	2440.2
44°	3549.1	3247.8	2491.3	1983.8	2014.3	2253.1	2304.8	2247.5	1999.7	1927.4	2405.0



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	3544.4	3241.4	2458.9	1934.2	1977.7	2222.9	2258.5	2213.4	1962.5	1879.3	2368.3
46°	3496.2	3238.1	2425.9	1876.8	1939.4	2190.3	2194.0	2174.8	1926.6	1826.2	2334.2
47°	3477.9	3237.4	2394.0	1826.3	1902.0	2148.8	2109.8	2132.7	1886.1	1776.3	2297.2
48°	3487.1	3214.6	2361.7	1775.5	1864.0	2107.1	1989.9	2081.3	1849.4	1726.4	2263.5
49°	3479.1	3155.8	2329.5	1724.7	1826.6	2062.4	1849.4	2029.0	1812.0	1677.9	2229.3
50°	3461.3	3139.9	2290.1	1671.0	1787.9	2013.1	1678.9	1959.2	1774.6	1622.9	2190.0
51°	3441.1	3138.1	2257.3	1619.2	1743.2	1944.1	1472.8	1868.9	1735.7	1569.5	2154.7
52°	3415.3	3110.8	2222.2	1567.7	1705.1	1858.9	1246.7	1748.3	1691.3	1518.4	2119.2
53°	3403.9	3080.2	2184.5	1514.0	1667.3	1753.3	990.4	1607.8	1652.2	1465.5	2080.2
54°	3397.7	3048.5	2147.6	1454.1	1626.3	1620.6	778.7	1435.7	1611.9	1405.5	2038.2
55°	3395.7	3022.5	2115.1	1400.6	1586.2	1437.1	604.0	1233.3	1569.5	1351.8	2001.8
56°	3406.2	3005.2	2082.9	1345.6	1545.0	1241.2	465.3	988.2	1523.0	1296.9	1966.7
57°	3426.1	2990.9	2050.1	1282.7	1496.0	1024.6	377.4	774.0	1476.1	1241.2	1932.8
58°	3458.9	2984.5	2006.2	1223.6	1449.9	786.5	331.6	591.7	1425.0	1180.1	1889.6
59°	3501.8	2980.5	1932.3	1165.8	1400.0	597.9	318.5	453.2	1364.7	1120.9	1821.5
60°	3548.8	2985.6	1874.2	1107.7	1346.7	455.1	310.5	349.9	1305.3	1062.8	1754.9
61°	3565.7	3012.3	1831.8	1045.5	1283.0	357.2	303.5	299.0	1241.3	1008.0	1706.7
62°	3526.4	3058.3	1774.9	991.1	1219.0	294.4	294.8	283.0	1175.7	948.2	1647.7
63°	3384.5	3116.2	1703.4	939.7	1151.9	277.3	283.8	273.6	1095.8	897.7	1574.5
64°	3206.6	3138.5	1624.1	887.4	1083.3	267.6	273.2	265.3	1004.0	848.6	1496.2
65°	3036.3	3058.2	1552.0	829.7	998.5	258.7	264.2	255.1	891.9	799.5	1418.4
66°	2874.1	2874.9	1478.4	778.0	901.3	247.9	254.8	243.9	752.9	745.3	1334.2
67°	2562.1	2658.3	1397.2	727.5	783.0	236.8	246.5	231.5	571.5	694.6	1258.4
68°	2231.8	2464.7	1335.3	670.1	615.8	225.4	240.0	220.5	411.3	642.1	1188.3
69°	2067.3	2146.8	1285.2	616.1	448.4	213.1	233.3	209.6	288.3	583.9	1121.6
70°	1966.6	1873.1	1251.1	560.2	313.1	202.0	224.5	199.9	215.5	530.1	1073.8
71°	1874.3	1745.4	1256.1	499.1	221.9	192.8	212.8	191.9	187.0	476.6	1051.2
72°	1777.3	1669.5	1454.8	445.1	189.5	184.8	196.6	182.6	175.9	424.4	1139.6
73°	1671.5	1593.8	1693.6	394.3	176.3	174.4	181.5	171.5	164.2	368.6	1486.9
74°	1548.9	1514.0	1311.0	346.6	164.0	162.9	166.7	160.9	151.7	320.9	1258.0
75°	1424.4	1434.1	834.6	297.4	150.4	152.1	152.7	146.8	141.4	276.2	760.5
76°	1299.8	1343.0	694.6	255.5	139.1	138.4	143.5	133.1	131.0	235.4	594.5
77°	1168.2	1243.8	616.1	217.8	127.9	125.1	135.1	118.4	120.8	199.3	518.7
78°	1046.2	1148.3	613.1	182.5	117.2	110.0	126.7	104.6	110.8	164.5	502.7
79°	920.5	1070.6	608.7	148.8	105.6	97.0	110.8	95.1	101.1	135.6	535.5
80°	796.8	991.1	473.4	121.7	96.1	87.0	98.5	86.5	92.1	109.5	392.8
81°	661.8	891.0	318.5	98.5	87.0	78.3	87.7	77.5	80.8	86.3	256.2
82°	542.5	769.7	266.1	77.2	74.3	69.7	72.7	67.2	69.3	64.7	213.2
83°	431.8	641.0	234.8	56.9	62.7	59.1	56.0	58.0	56.7	49.7	191.0
84°	334.4	553.3	205.7	42.5	50.6	49.4	41.9	48.6	46.0	38.1	168.2
85°	235.7	468.5	175.6	31.3	40.0	40.2	34.0	36.6	35.5	28.0	143.6
86°	159.6	337.7	146.2	21.8	29.4	28.7	21.8	26.0	28.1	19.0	114.5
87°	94.5	230.7	103.9	13.3	21.4	17.5	13.9	16.9	19.7	12.4	79.6
88°	31.7	88.4	41.8	6.9	12.7	9.7	10.5	11.2	12.0	7.2	25.6
89°	2.6	1.8	2.4	2.8	5.6	5.5	9.0	9.1	6.6	3.8	2.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.9	0.9	1.0	1.3	2.6	3.9	9.4	9.1	6.1	3.1	2.7
91°	0.9	0.9	1.2	1.6	2.8	4.1	10.4	10.0	6.5	3.4	3.0
92°	1.0	1.0	1.2	1.3	3.3	4.6	11.3	10.6	7.1	3.7	3.1
93°	1.2	1.1	1.3	1.7	3.5	5.2	12.1	11.4	7.6	3.9	3.5
94°	1.2	1.1	1.5	1.8	3.8	5.7	12.9	12.2	8.1	4.2	3.6
95°	1.2	1.2	1.7	2.0	4.2	6.4	13.8	12.9	8.6	4.6	4.0
96°	1.1	1.1	1.7	2.2	4.4	6.8	14.9	13.8	9.0	5.0	4.3
97°	1.4	1.3	2.0	2.5	4.9	7.5	15.8	14.4	9.7	5.3	4.7
98°	1.3	1.3	2.1	2.7	5.3	8.1	16.5	15.2	10.3	5.7	5.0
99°	1.4	1.5	2.4	2.9	5.7	8.7	17.4	16.0	10.7	6.1	5.5
100°	1.4	1.6	2.6	3.1	6.2	9.2	18.3	16.7	11.5	6.6	5.8
101°	1.6	1.8	2.9	3.5	6.4	9.8	19.2	17.5	12.0	7.1	6.2
102°	1.7	2.0	3.1	3.8	7.0	10.5	20.0	18.2	12.7	7.5	6.5
103°	1.7	2.1	3.3	4.2	7.4	11.0	20.9	18.9	13.1	8.0	7.1
104°	2.0	2.3	3.7	4.4	7.9	11.7	21.5	19.6	13.8	8.5	7.5
105°	2.2	2.4	4.0	4.7	8.4	12.5	22.3	20.4	14.4	8.9	8.0
106°	2.2	2.9	4.2	5.1	8.9	13.0	23.3	21.1	14.8	9.4	8.4
107°	2.4	3.1	4.6	5.5	9.3	13.8	24.1	21.9	15.4	9.8	8.9
108°	2.8	3.5	5.1	5.9	9.9	14.5	24.7	22.6	15.8	10.4	9.3
109°	3.1	3.8	5.3	6.3	10.3	15.2	25.4	23.3	16.5	11.0	10.0
110°	3.3	4.2	6.0	6.7	10.8	15.9	26.2	24.1	17.1	11.5	10.5
111°	3.6	4.6	6.3	7.1	11.3	16.6	26.8	24.7	17.8	12.1	10.8
112°	4.2	5.0	6.5	7.5	11.7	17.2	27.8	25.2	18.2	12.4	11.4
113°	4.5	5.3	7.0	7.9	12.3	17.7	28.1	25.7	18.7	13.2	12.0
114°	4.8	5.9	7.4	8.3	12.9	18.3	28.6	26.3	19.3	13.5	12.3
115°	5.1	6.3	7.7	8.9	13.4	19.0	29.3	26.7	19.8	14.1	12.9
116°	5.7	6.8	8.3	9.1	13.9	19.6	29.8	27.2	20.4	14.8	13.4
117°	6.2	7.2	8.6	9.7	14.5	20.2	30.2	27.8	21.0	15.3	13.8
118°	6.5	7.6	9.0	10.2	14.9	20.7	30.7	27.9	21.2	15.6	14.5
119°	7.2	8.2	9.4	10.6	15.5	21.0	31.1	28.2	21.9	16.3	14.9
120°	7.8	8.7	9.9	11.2	15.9	21.8	31.4	28.8	22.3	16.8	15.4
121°	8.3	9.4	10.3	11.6	16.5	22.3	31.6	29.1	22.7	17.4	16.0
122°	8.9	9.7	10.8	12.1	17.1	22.6	31.8	29.5	23.3	17.8	16.4
123°	9.4	10.4	11.3	12.4	17.6	23.4	32.1	29.8	23.6	18.3	16.9
124°	10.1	10.8	11.7	12.9	18.1	23.9	32.5	30.1	24.0	18.9	17.4
125°	10.8	11.5	12.2	13.5	18.6	24.3	32.7	30.4	24.5	19.3	18.0
126°	11.3	12.0	12.7	14.1	19.1	24.8	32.9	30.6	24.8	19.8	18.5
127°	11.9	12.4	13.1	14.5	19.5	25.2	33.0	30.8	25.2	20.2	19.0
128°	12.3	13.0	13.7	14.9	20.0	25.7	33.2	31.1	25.6	20.7	19.4
129°	13.0	13.4	14.1	15.4	20.4	26.1	33.3	31.3	25.9	21.1	20.0
130°	13.6	13.8	14.6	15.8	20.9	26.6	33.5	31.4	26.3	21.5	20.4
131°	14.0	14.2	15.0	16.4	21.3	27.0	33.5	31.8	26.7	22.1	20.8
132°	14.5	14.8	15.6	16.8	21.8	27.4	33.6	32.0	26.8	22.4	21.1
133°	15.0	15.3	15.9	17.5	22.3	27.8	33.8	32.2	27.0	23.0	21.5
134°	15.6	15.8	16.4	17.8	22.8	28.3	33.9	32.2	27.4	23.4	22.2



REPORT NUMBER: P1449846
 CATALOG NUMBER: TWC100_T4_60W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	16.0	16.3	16.9	18.3	23.1	28.7	34.1	32.3	27.8	23.7	22.6
136°	16.4	16.7	17.5	18.7	23.5	29.0	34.1	32.5	28.0	24.1	22.9
137°	16.9	17.1	17.8	19.3	23.8	29.4	34.0	32.7	28.3	24.5	23.4
138°	17.4	17.8	18.4	19.7	24.0	29.6	34.0	32.5	28.5	24.9	23.7
139°	17.8	18.1	18.8	20.3	24.5	29.8	34.1	32.7	28.7	25.3	24.0
140°	18.2	18.6	19.3	20.7	24.8	30.0	34.2	32.9	28.9	25.6	24.5
141°	18.6	19.1	19.7	20.9	25.1	30.2	34.0	32.9	29.2	26.0	24.8
142°	19.1	19.3	20.4	21.4	25.4	30.6	34.0	32.8	29.5	26.3	25.1
143°	19.4	20.0	20.9	21.9	25.8	30.7	34.0	32.9	29.6	26.6	25.3
144°	19.9	20.3	21.1	22.3	26.3	30.8	34.0	32.9	29.9	27.0	25.7
145°	20.6	21.0	21.7	22.6	26.3	30.8	33.9	32.9	30.1	27.1	26.0
146°	21.0	21.5	22.1	23.0	26.7	31.0	34.0	33.1	30.3	27.6	26.4
147°	21.5	21.9	22.6	23.3	27.0	31.1	33.9	32.9	30.5	28.0	26.9
148°	22.2	22.6	22.8	23.8	27.3	31.1	33.8	32.9	30.7	28.1	27.1
149°	22.7	22.8	23.4	24.2	27.6	31.2	34.0	33.2	30.8	28.4	27.3
150°	23.3	23.4	23.7	24.5	27.9	31.5	33.8	33.3	31.1	28.8	27.6
151°	23.7	23.9	24.1	24.9	28.1	31.5	33.9	33.3	31.2	29.1	27.9
152°	24.4	24.3	24.4	25.3	28.5	31.8	33.7	33.2	31.3	29.3	28.3
153°	24.6	24.7	24.6	25.6	28.5	31.7	33.6	33.2	31.6	29.6	28.5
154°	25.2	25.2	25.2	25.9	28.9	31.8	33.6	33.3	31.6	29.6	28.6
155°	25.6	25.3	25.6	26.3	29.0	31.9	33.6	33.2	31.8	30.0	28.9
156°	26.1	25.8	25.9	26.7	29.3	32.0	33.4	33.2	31.9	30.2	29.1
157°	26.3	26.0	26.2	27.0	29.5	32.2	33.3	33.1	31.8	30.3	29.4
158°	26.6	26.3	26.4	27.4	29.9	32.3	33.3	33.1	31.9	30.6	29.6
159°	26.9	26.6	26.8	27.7	30.0	32.3	33.2	33.0	32.1	30.8	29.9
160°	27.2	26.8	27.0	27.8	30.3	32.3	33.1	33.1	32.2	30.9	30.0
161°	27.5	27.1	27.3	28.2	30.4	32.5	32.9	32.9	32.2	31.1	30.2
162°	27.8	27.4	27.8	28.5	30.7	32.5	32.8	32.9	32.3	31.1	30.4
163°	27.8	27.6	27.8	28.9	30.8	32.5	32.8	32.9	32.2	31.4	30.6
164°	28.1	27.7	28.1	29.2	31.1	32.5	32.8	32.8	32.4	31.4	30.8
165°	28.5	28.3	28.5	29.3	31.3	32.8	32.6	32.8	32.4	31.6	31.0
166°	28.6	28.4	28.8	29.6	31.3	32.7	32.6	32.7	32.5	31.7	31.1
167°	28.9	28.9	29.0	29.9	31.5	32.8	32.5	32.8	32.5	31.8	31.2
168°	29.0	29.0	29.4	30.0	31.7	32.8	32.5	32.6	32.5	31.9	31.5
169°	29.3	29.3	29.6	30.3	31.9	32.9	32.5	32.6	32.5	32.1	31.5
170°	29.5	29.4	29.9	30.7	31.9	32.8	32.5	32.7	32.6	32.2	31.8
171°	29.8	29.7	30.2	30.9	32.1	32.9	32.7	32.6	32.5	32.3	31.8
172°	30.2	30.0	30.3	31.1	32.2	32.8	32.5	32.5	32.5	32.5	31.9
173°	30.5	30.2	30.5	31.4	32.2	32.7	32.7	32.8	32.5	32.5	32.1
174°	30.7	30.4	30.8	31.6	32.3	32.9	32.6	32.6	32.4	32.7	32.3
175°	31.1	30.7	31.3	31.7	32.6	32.9	32.5	32.3	32.5	32.6	32.4
176°	31.4	31.1	31.2	32.1	32.6	33.0	32.5	32.5	32.4	32.5	32.5
177°	31.5	31.2	31.6	32.2	32.6	32.9	32.5	32.2	32.3	32.6	32.6
178°	31.8	31.5	31.7	32.2	32.9	32.9	32.4	32.1	32.4	32.7	32.6
179°	31.9	31.7	31.9	32.4	32.8	32.8	32.4	32.2	32.3	32.8	32.6



REPORT NUMBER: P1449846
CATALOG NUMBER: TWC100_T4_60W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4



REPORT NUMBER: P1449846
CATALOG NUMBER: TWC100_T4_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3119.8	3119.8
1°	3135.6	3143.3
2°	3148.4	3159.6
3°	3162.0	3175.3
4°	3173.8	3191.0
5°	3185.6	3205.2
6°	3198.7	3220.5
7°	3210.9	3238.3
8°	3223.5	3258.8
9°	3236.2	3276.5
10°	3247.1	3292.8
11°	3258.2	3309.5
12°	3272.7	3328.4
13°	3280.4	3341.7
14°	3288.9	3357.0
15°	3290.7	3367.2
16°	3298.5	3381.2
17°	3307.1	3395.9
18°	3311.2	3414.2
19°	3318.3	3424.7
20°	3320.9	3432.9
21°	3319.5	3439.6
22°	3316.1	3441.7
23°	3312.4	3447.0
24°	3307.9	3452.9
25°	3304.1	3460.2
26°	3298.1	3464.7
27°	3292.8	3471.1
28°	3287.8	3476.6
29°	3280.8	3487.4
30°	3280.1	3494.4
31°	3274.7	3500.9
32°	3270.3	3507.1
33°	3266.2	3510.6
34°	3258.3	3516.8
35°	3256.2	3522.0
36°	3254.3	3526.1
37°	3253.2	3534.3
38°	3246.2	3537.1
39°	3240.9	3539.1
40°	3232.7	3538.2
41°	3223.2	3536.2
42°	3213.4	3535.2
43°	3203.9	3538.5
44°	3194.0	3549.1



REPORT NUMBER: P1449846
CATALOG NUMBER: TWC100_T4_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3183.1	3544.4
46°	3179.7	3496.2
47°	3173.8	3477.9
48°	3131.6	3487.1
49°	3084.9	3479.1
50°	3077.8	3461.3
51°	3067.2	3441.1
52°	3042.7	3415.3
53°	3003.6	3403.9
54°	2971.9	3397.7
55°	2944.6	3395.7
56°	2923.7	3406.2
57°	2908.8	3426.1
58°	2901.3	3458.9
59°	2895.3	3501.8
60°	2905.5	3548.8
61°	2940.6	3565.7
62°	2991.4	3526.4
63°	3039.5	3384.5
64°	3032.5	3206.6
65°	2896.5	3036.3
66°	2697.1	2874.1
67°	2514.5	2562.1
68°	2263.9	2231.8
69°	1930.8	2067.3
70°	1745.5	1966.6
71°	1658.3	1874.3
72°	1572.5	1777.3
73°	1497.4	1671.5
74°	1421.0	1548.9
75°	1338.6	1424.4
76°	1231.4	1299.8
77°	1139.3	1168.2
78°	1060.2	1046.2
79°	985.1	920.5
80°	898.4	796.8
81°	806.7	661.8
82°	678.1	542.5
83°	565.3	431.8
84°	480.2	334.4
85°	366.6	235.7
86°	276.0	159.6
87°	152.1	94.5
88°	8.9	31.7
89°	1.4	2.6



REPORT NUMBER: P1449846
CATALOG NUMBER: TWC100_T4_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1.6	0.9
91°	1.7	0.9
92°	1.7	1.0
93°	2.0	1.2
94°	2.0	1.2
95°	2.4	1.2
96°	2.8	1.1
97°	2.8	1.4
98°	3.2	1.3
99°	3.6	1.4
100°	3.9	1.4
101°	4.3	1.6
102°	4.8	1.7
103°	5.3	1.7
104°	5.7	2.0
105°	6.1	2.2
106°	6.5	2.2
107°	7.2	2.4
108°	7.5	2.8
109°	8.0	3.1
110°	8.6	3.3
111°	9.2	3.6
112°	9.7	4.2
113°	10.4	4.5
114°	10.9	4.8
115°	11.6	5.1
116°	12.2	5.7
117°	12.8	6.2
118°	13.3	6.5
119°	13.9	7.2
120°	14.6	7.8
121°	15.3	8.3
122°	15.8	8.9
123°	16.4	9.4
124°	17.0	10.1
125°	17.5	10.8
126°	18.0	11.3
127°	18.5	11.9
128°	19.0	12.3
129°	19.4	13.0
130°	20.0	13.6
131°	20.4	14.0
132°	21.0	14.5
133°	21.1	15.0
134°	21.7	15.6



REPORT NUMBER: P1449846
CATALOG NUMBER: TWC100_T4_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	22.2	16.0
136°	22.5	16.4
137°	22.8	16.9
138°	23.4	17.4
139°	23.7	17.8
140°	24.2	18.2
141°	24.4	18.6
142°	24.8	19.1
143°	25.1	19.4
144°	25.6	19.9
145°	25.9	20.6
146°	26.1	21.0
147°	26.3	21.5
148°	26.6	22.2
149°	26.8	22.7
150°	27.2	23.3
151°	27.4	23.7
152°	27.7	24.4
153°	27.8	24.6
154°	28.0	25.2
155°	28.2	25.6
156°	28.4	26.1
157°	28.6	26.3
158°	28.9	26.6
159°	29.0	26.9
160°	29.2	27.2
161°	29.2	27.5
162°	29.6	27.8
163°	29.8	27.8
164°	30.0	28.1
165°	30.2	28.5
166°	30.3	28.6
167°	30.4	28.9
168°	30.7	29.0
169°	30.9	29.3
170°	31.0	29.5
171°	31.4	29.8
172°	31.4	30.2
173°	31.6	30.5
174°	31.9	30.7
175°	32.0	31.1
176°	32.2	31.4
177°	32.4	31.5
178°	32.7	31.8
179°	32.8	31.9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P1449846
CATALOG NUMBER: TWC100_T4_60W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	32.4	32.4

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-2

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-4000K

Data in this report applies to families of products including ;MWP2460W34VDDKYYAD

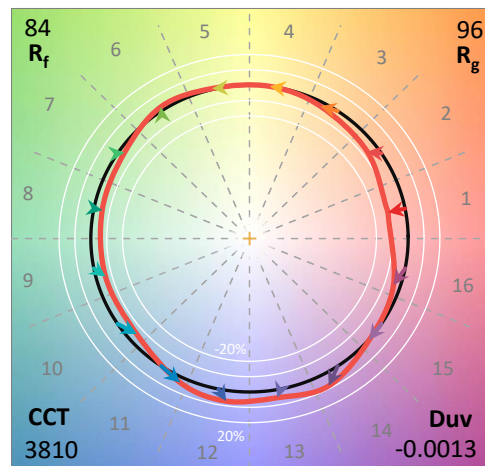
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2601-659-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/16/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **MWP2460W34VDDKYYAD-T4-24W-4000K**
 Description: Mester Wedge, at T4 beam setting, 24W output, 4000K

Spectral Parameters

CCT (K): 3810
 CIE u': 0.2295
 CIE v': 0.5035
 Duv: -0.0013
 CIE x: 0.3881
 CIE y: 0.3785
 CIE z: 0.2334
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 580
 Purity: 30.07368
 Rf: 84.4
 Rg: 96.5

CRI (Ra):	84.5		
R1:	83.7	R9:	15.9
R2:	90.7	R10:	77.2
R3:	95.1	R11:	83.0
R4:	83.6	R12:	62.4
R5:	83.4	R13:	85.6
R6:	86.7	R14:	97.4
R7:	86.3	R15:	77.9
R8:	66.5		



Test Conditions

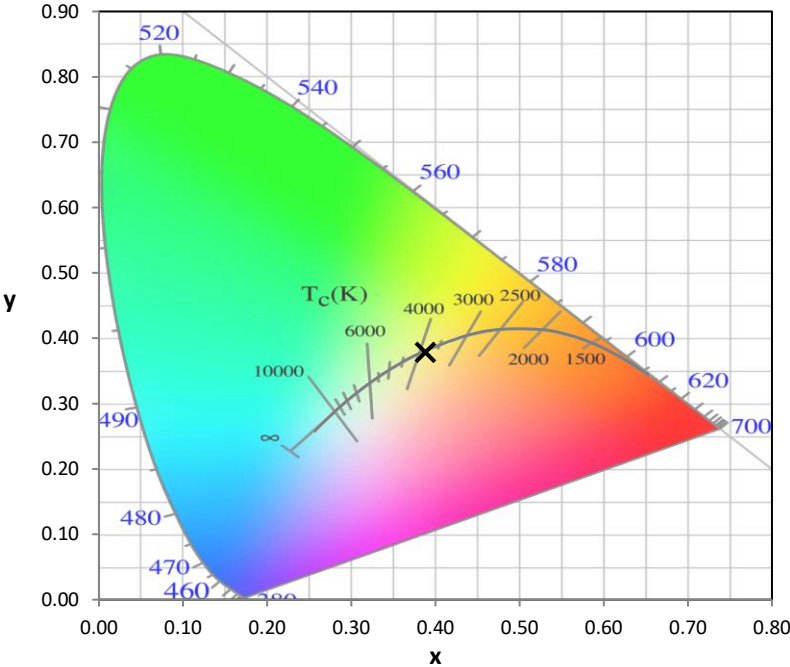
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-2

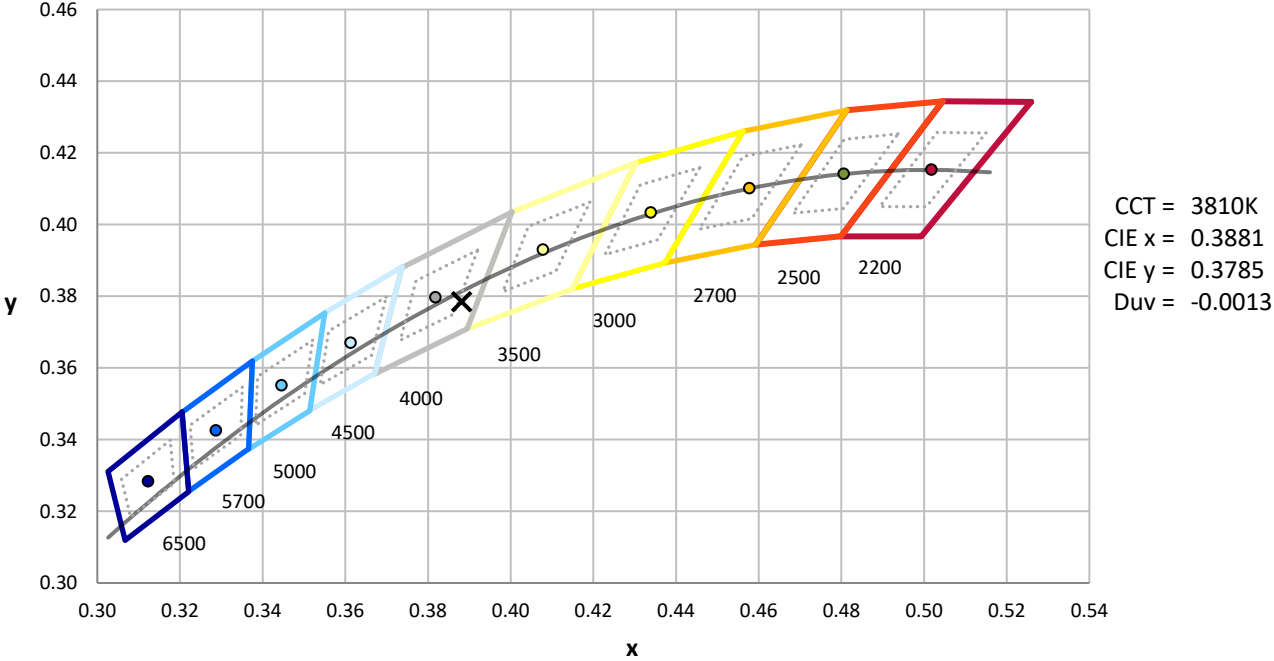
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



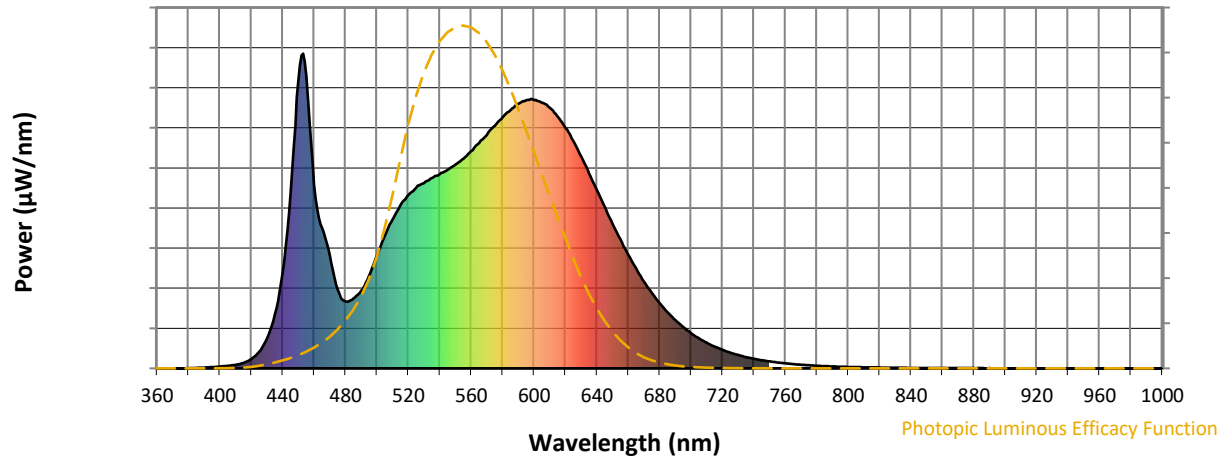
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

Photopic Flux vs. Wavelength

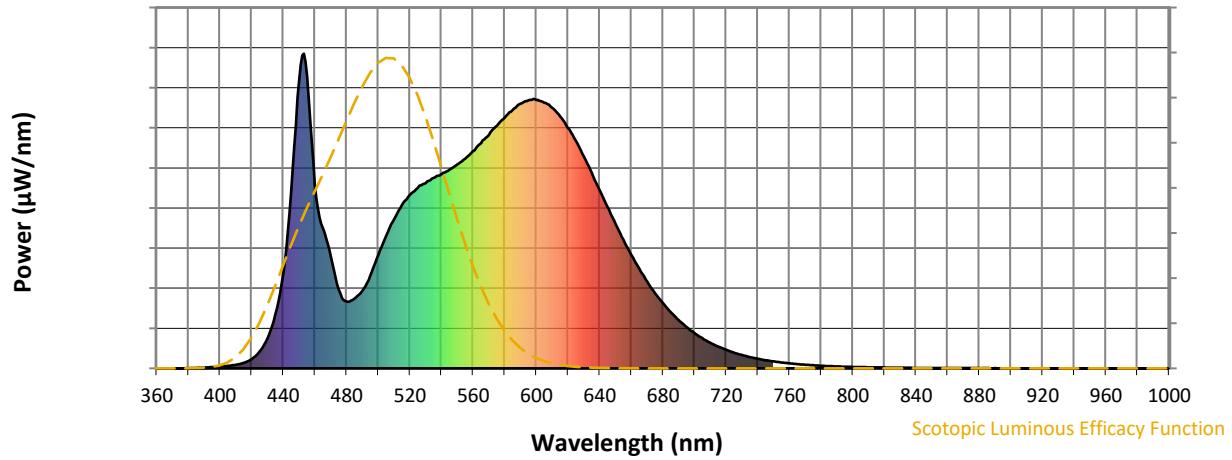


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



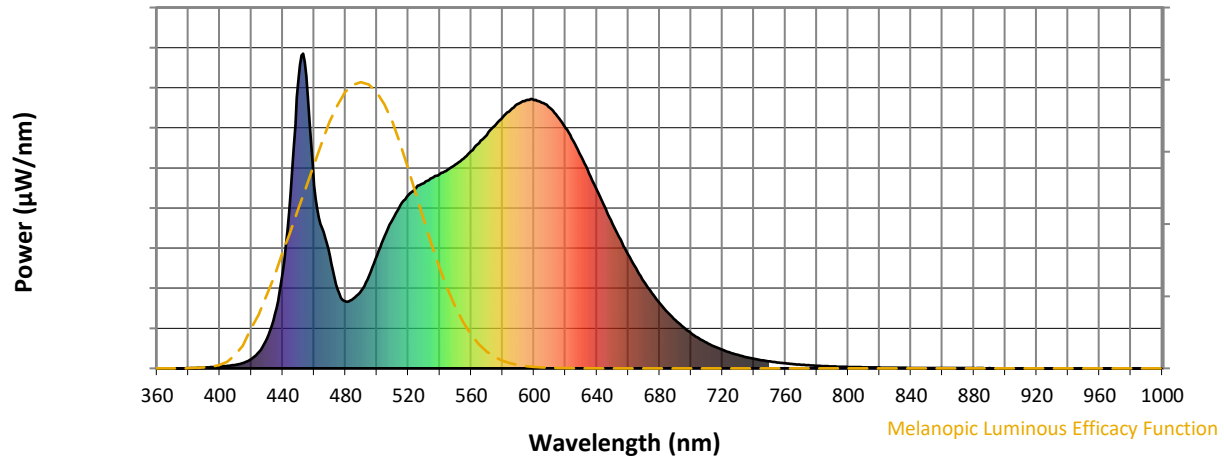
Scotopic Lumens: NR

S/P: 1.64

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-2

Melanopic Flux vs. Wavelength



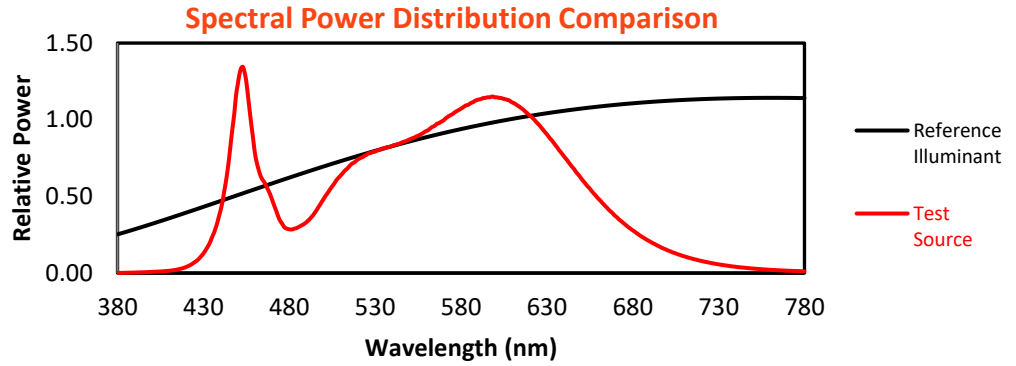
Melanopic Lumens: NR

M/P: 3.35

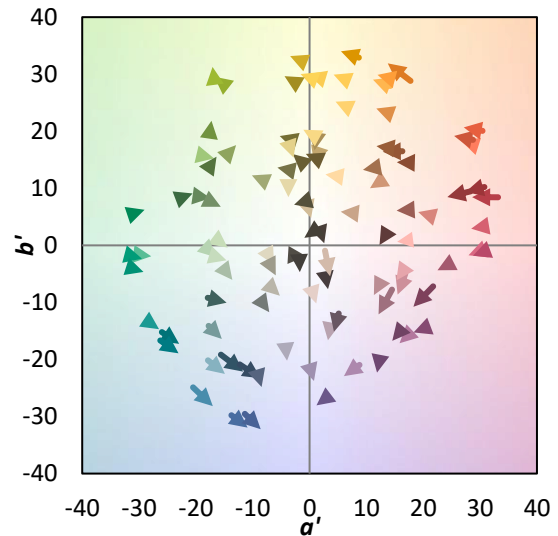
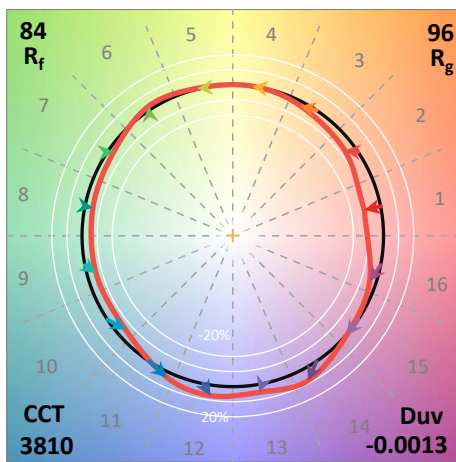
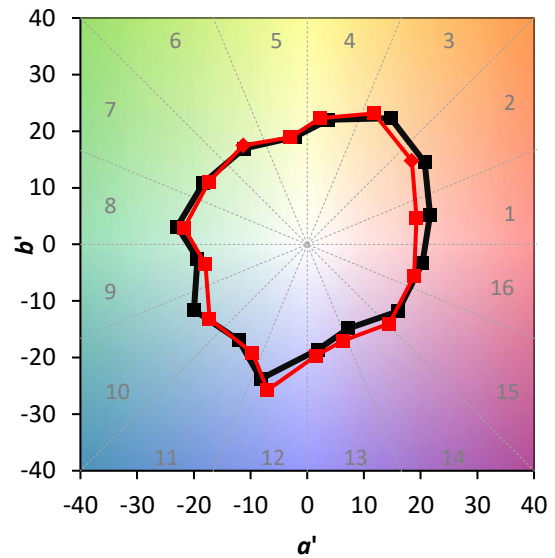
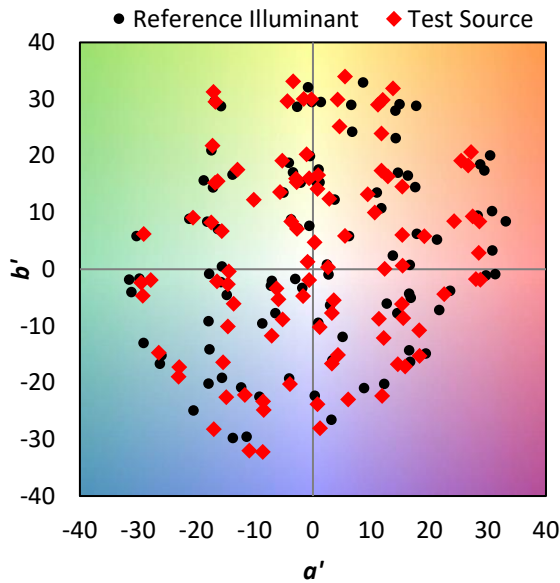
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

Summary

$R_f = 84.4$
 $R_g = 96.5$
 CIE $R_a = 84.5$
 $R_9 = 15.9$

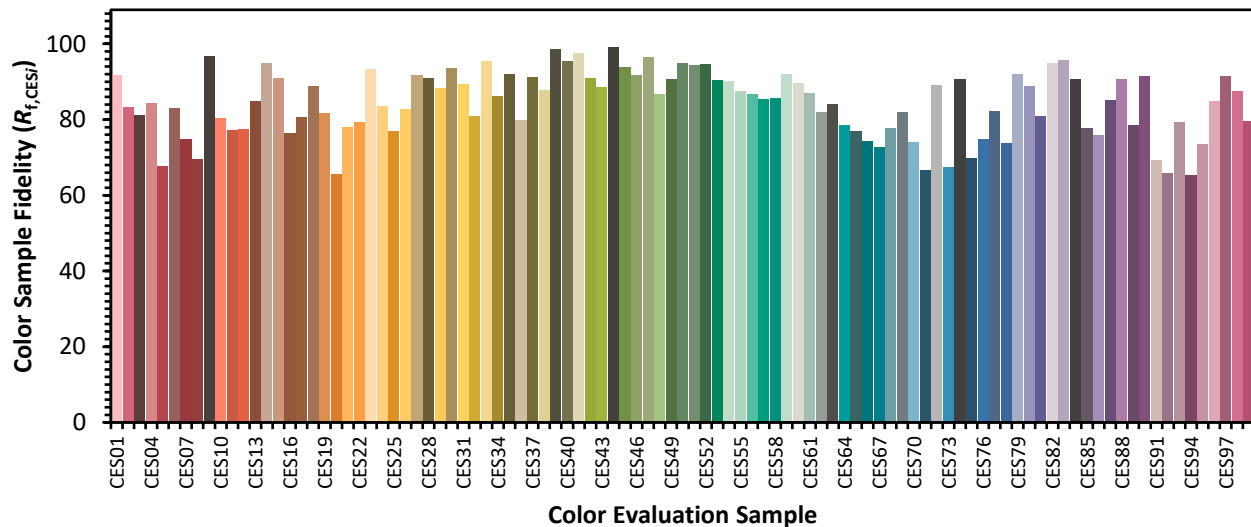


Color Vector Graphics

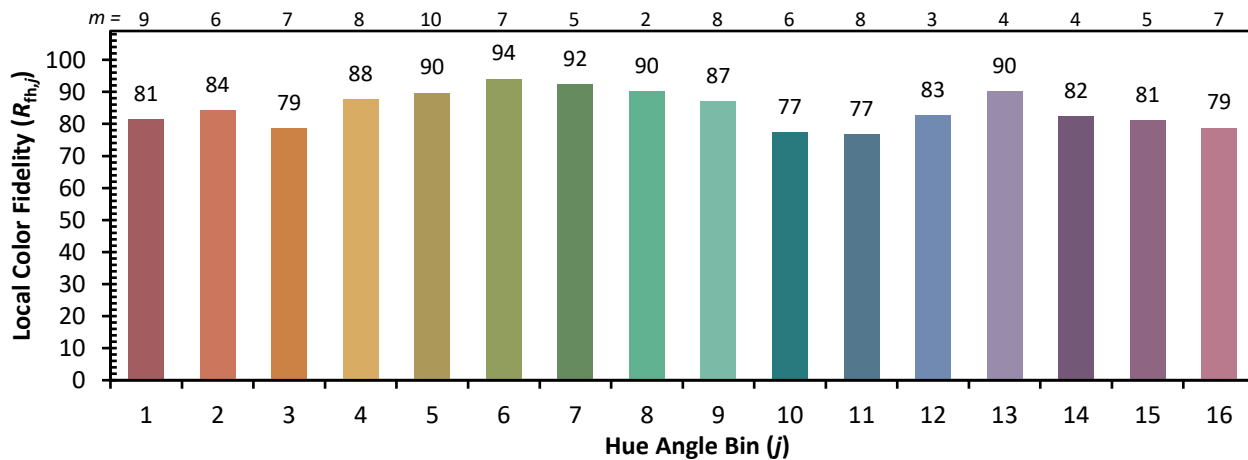
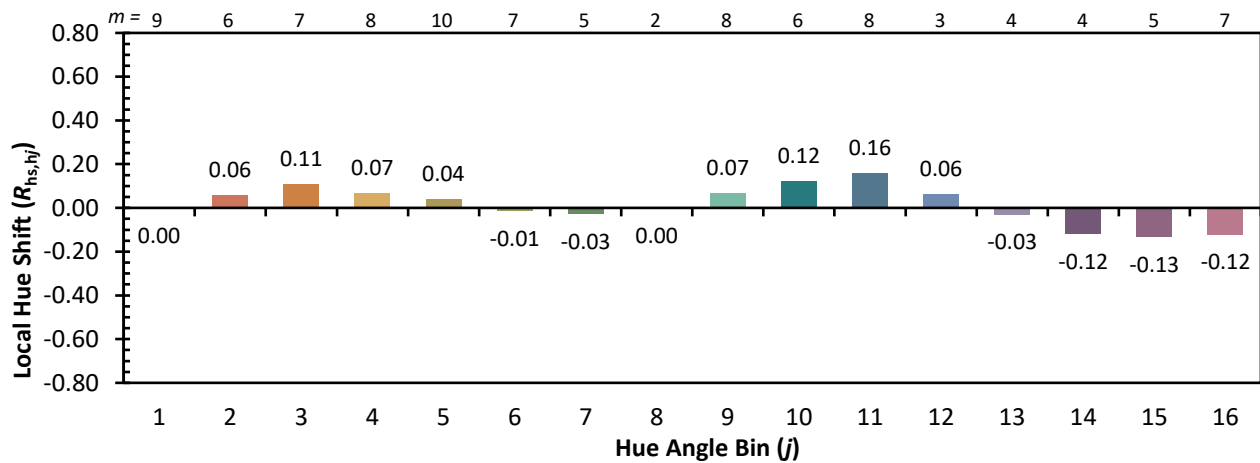
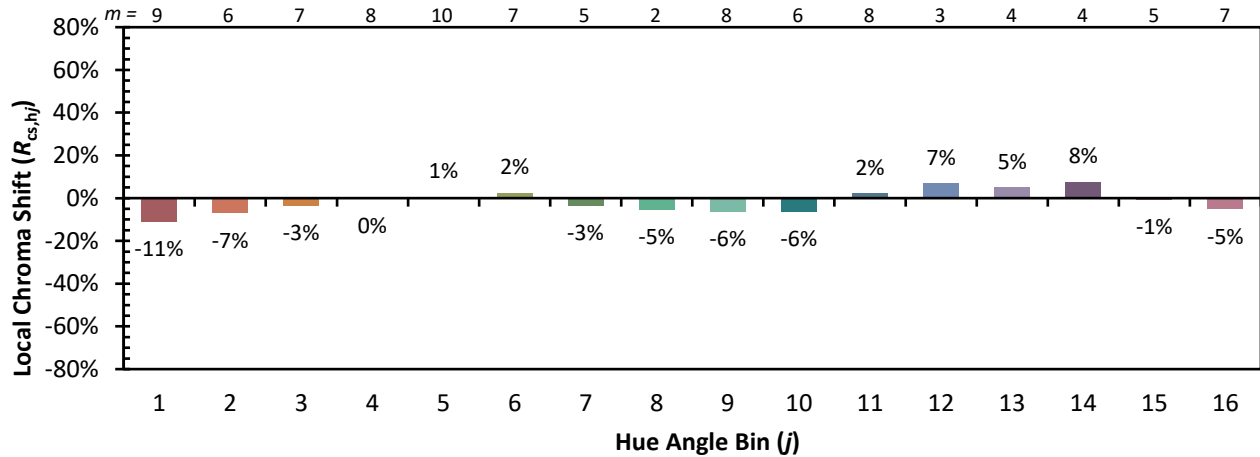


Individual Sample Fidelity Index ($R_{f,i}$)

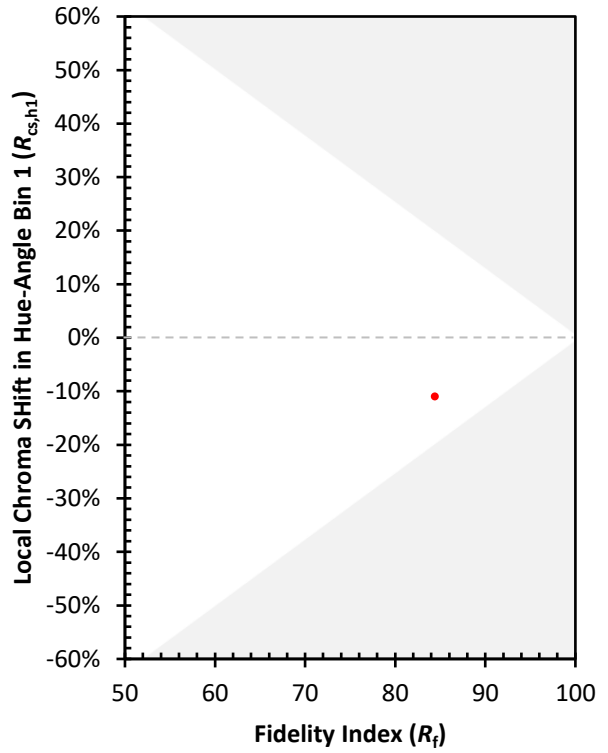
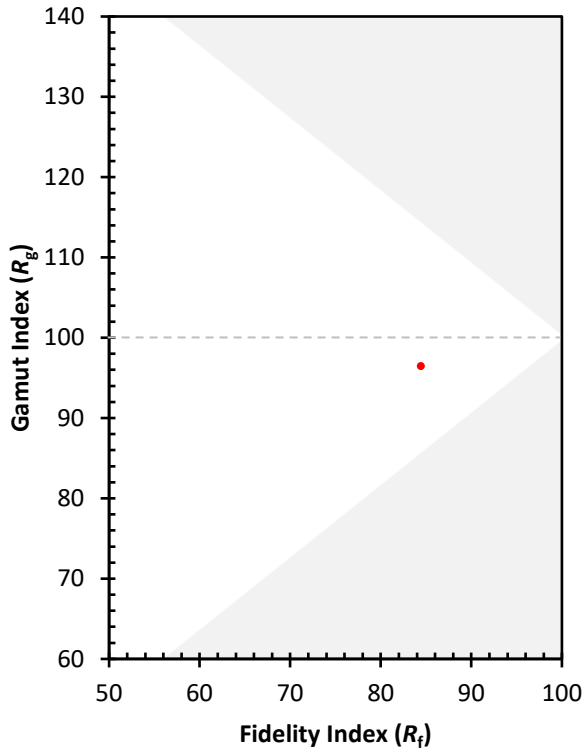
CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 86	CES83 = 96
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 91
CES10 = 75	CES35 = 92	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 80	CES61 = 87	CES86 = 76
CES12 = 63	CES37 = 91	CES62 = 82	CES87 = 85
CES13 = 43	CES38 = 88	CES63 = 84	CES88 = 91
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 77	CES90 = 92
CES16 = 47	CES41 = 98	CES66 = 74	CES91 = 69
CES17 = 49	CES42 = 91	CES67 = 73	CES92 = 66
CES18 = 56	CES43 = 89	CES68 = 78	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 74	CES95 = 74
CES21 = 86	CES46 = 92	CES71 = 67	CES96 = 85
CES22 = 78	CES47 = 97	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 87	CES73 = 68	CES98 = 87
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 80
CES25 = 71	CES50 = 95	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)